

**I CLAIM:**

1. An institutional level data repository system for medication product information, said system comprising:

5           a) a database containing medical product information comprising one or more of the following fields or combinations of fields:

            i) product scan codes;

            ii) product description information including NDC number; wherein  
10       said medical product information is specially formatted and designed to support one or more of the items including pharmaceutical calculations, patient care dosing calculations, determination of equivalencies, and proper formatting of text for dosing instructions and directions for use;

            iii) re-packaging batch identifier codes;

            iv) re-packaging related product and activity information;

15           v) solution admixture unique container identifier codes;

            vi) related product and admixture activity information;

            vii) product recall information;

            viii) company specific data in support of a company's individual  
product;

20           b) a user access data auditor which provides a user data access audit trail;

            c) a programmed system computer for processing and storing said medical  
product information;

            d) an input device operatively interconnected to the programmed system  
computer means;

25           e) an output device operatively interconnected to the programmed system  
computer means;

            f) said input and output devices including a plurality of terminals located  
remotely from the programmed system computer for automatically accessing said  
database and displaying it to a user.

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2. The system of claim 1, further comprising an Internet connection for updating and maintaining medical product information from a remote source database via network data communication, said connection dynamically supplying and automatically updating said product information.

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3. The system of claim 1, further comprising an Internet connection for updating and maintaining product recall information from a remote source database via network data communication, said connection dynamically supplying and automatically displaying or otherwise using said product recall information to prevent the use of a recalled product.

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4. The system of claim 1, where said medical product information is concatenated from a plurality of databases selected from the group consisting of a locally-based re-packaging, labeling, and compounding/admixture system, a pharmacy database, and a medication database.

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5. The system of claim 1, further comprising a two-way communication means with a locally-based re-packaging, labeling, and compounding/admixture system.

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6. A method for using and creating an institutional level data repository system for medical product information, said method comprising the steps of:

a. calculating and assigning unique batch or container identifier codes to a medical product;

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b. communicating said codes to a locally-based re-packaging, labeling, and admixture solution system;

c. receiving, storing and tracking information related to the re-packaging, labeling, and solution admixture activities in support of a bedside scanning medication safety system;

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d. providing product recall information on re-packaged or admixed products that have been recalled to prevent administration at the time of use; and

e. communicating company specific data in support of the medical product.

7. The method of claim 6, further comprising the step of manually entering data using a bar code reader and scanning a bar code on a medication.

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8. The system of claim 1, wherein at least one of said input and output devices comprises a computer display screen having said medical product information displayed in fields.

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9. The system of claim 1, comprising a source-oriented patient specific data-retrieval subsystem, said data retrieval subsystem being connected to access at least one data-retrieval network to retrieve product description and identification information and patient-related data to the point of care from at least one remote source database.

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10. The system of claim 1, wherein at least one of said input and output devices is coupled to a voice recognition unit for permitting said user to communicate with said system by means of verbal inputs.

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11. The system of claim 1, wherein said input means further comprises a stylus interface for permitting said user to communicate with said system by writing on said screen with a stylus.

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12. The system of claim 1, wherein information is received in said database input and output devices which utilize one or more of the items taken from the group comprising voice, keyboard, pen and mouse.

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13. The institutional level data repository system of claim 1, wherein said medical product information relates to products taken from the group consisting of generic, brand, over-the-counter, biologicals, blood products, medical devices, admixed solutions and total and peripheral parenteral nutrition.

14. The method of claim 6, further comprising the steps of retrieving medical product information across a network from a remote source database and displaying or allowing access to retrieved product information in real time.

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15. The method of claim 6, wherein said product recall information includes previously known product recall data associated with the product.

16. The method of claim 6, further comprising means for receiving and storing messages relating to product recalls, said messages being automatically displayed to a user at the point of use or upon the identification of said user.

17. The method of claim 6, further comprising means for receiving and storing messages relating to product recalls, said messages consisting of data comprising at least one of the items selected from the group consisting of: identification of the product, lot number of the product, reason(s) for recall and severity of recall.

18. The method of claim 6, further comprising the steps of reading the identifier code of a dispensed package with a code reader and verifying that the requested package was properly dispensed.

19. The method of claim 18, wherein the step of verifying the requested package was properly dispensed comprises comparing the code read by the code reader to a reference code.

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20. The system of claim 1, further comprising a program operable to use said medical product database and patient specific information to calculate a dosage recommendation, including an amount and a frequency of administration of said medical product.

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21. The system of claim 1, further comprising communication media for said database containing medical product information to be used with other systems within a local area network.

5           22. The system of claim 1, further comprising communication media for said database containing medical product information to be used with other systems in a client server architecture.

10           23. The system of claim 1, further comprising communication media for said medical product information database to support a bedside scanning system for medication safety.